

## WHAT IS CLAIMED IS:

1. An electronic device for health index measurement, comprising:
  - a power receiving section to be connected to a driving power supply;
  - 5 a voltage measuring section configured to measure a variation of a power supply voltage that is inputted to said power receiving section;
  - a signal extracting section configured to analyze measured data thereof and to extract a specific signal contained in the measured data; and
  - a first control section configured to perform a specific control based
  - 10 on the signal extracted by said signal extracting section.
2. An electronic device for health index measurement, comprising:
  - a power receiving section to be connected to a driving power supply;
  - a voltage measuring section configured to measure a variation of a power supply voltage that is inputted to said power receiving section;
  - 15 a signal extracting section configured to analyze measured data thereof and to extract a specific signal contained in the measured data;
  - a first control section configured to perform a specific control based on the signal extracted by said signal extracting section;
  - a second control section configured to perform a control for health
  - 20 index measurement and other necessary controls; and
  - a switch section configured to transmit a switching signal and other signals to each section by a predetermined setting operation,
  - wherein said second control section has a control function of controlling said voltage measuring section, said signal extracting section and
  - 25 said first control section to operate and perform a specific control only when said switch section is in a predetermined set state.
3. An electronic device for health index measurement, comprising:
  - a power receiving section to be connected to a driving power supply;
  - a voltage measuring section configured to measure a variation of a
  - 30 power supply voltage that is inputted to said power receiving section;
  - a signal extracting section configured to analyze measured data thereof and to extract a specific signal contained in the measured data;

a first control section configured to perform a specific control based on the signal extracted by said signal extracting section;

a second control section configured to perform a control for health index measurement and other necessary controls; and

5        one switch section, or two or more switch sections configured to transmit a switching signal and other signals to each section by a predetermined setting operation,

10        wherein said first control section has a function of performing a kind of control selected from plural kinds of specific controls when receiving a specific signal from said signal extracting section, and said second control section has a function of selecting a kind of control to be performed in said first control section in accordance with which switch section of said plural switch sections is operated and having it executed.

4.        An electronic device for health index measurement, comprising:

15        a power receiving section to be connected to a driving power supply;

a voltage measuring section configured to measure a variation of a power supply voltage that is inputted to said power receiving section;

a signal extracting section configured to analyze measured data thereof and to extract a specific signal contained in the measured data;

20        a first control section configured to perform a specific control based on the signal extracted by said signal extracting section; and

a second control section configured to perform a control for health index measurement and other necessary controls;

25        wherein said second control section has a function capable of selecting and executing one kind of operation mode, or two or more kinds of operation modes as an operation mode of said electronic device, and has a function of operating said voltage measuring section, said signal extracting section and said first control section to make them perform the specific control only when a specific operation mode is selected out of these operation modes.

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5.        An electronic device for health index measurement, comprising:

a power receiving section to be connected to a driving power supply;

a voltage measuring section configured to measure a variation of a power supply voltage that is inputted to said power receiving section;

a signal extracting section configured to analyze measured data thereof and to extract a specific signal contained in the measured data;

5 a first control section configured to perform a specific control based on the signal extracted by said signal extracting section; and

a second control section configured to perform a control for health index measurement and other necessary controls,

10 wherein said first control section has a function of performing a control selected from plural kinds of specific controls when receiving a specific signal from said signal extracting section; and

15 wherein said second control section has a function capable of selecting and executing one kind of operation mode, or two or more kinds of operation modes as an operation mode of said electronic device, and has a function of selecting a kind of control to be performed in said first control section in accordance with which operation mode of these operation modes is selected and having it executed.

6. The electronic device for health index measurement according to any one of claims 1 to 5, wherein the specific signal is given as a time-series  
20 variation of a power supply voltage within a range that assures a normal operation of said electronic device.

7. The electronic device for health index measurement according to any one of claims 1 to 6, wherein plural kinds of the specific signals are prepared, said first control section has plural operation modes corresponding to the  
25 plural kinds of specific signals, and selects and executes a specific operation mode corresponding to the kind of specific signal extracted by said signal extracting section.

8. The electronic device for health index measurement according to claim 7, wherein the operation mode is a mode in which function setting is  
30 performed.

9. The electronic device for health index measurement according to any one of claims 1 to 6, wherein said specific control section has a function of

writing the signal extracted by said signal extracting section into a nonvolatile memory as individual information.

10. The electronic device for health index measurement according to any one of claims 1 to 6, wherein, said control section has a function of writing  
5 an operation program that is given by the signal extracted by said signal extracting section into a nonvolatile memory.

11. A control method of an electronic device for health index measurement, comprising:

10 connecting a driving power supply to said power receiving section of the electronic device for health index measurement according to any one of claims 1 to 10; and

applying from said power supply to said power receiving section of said electronic device a power supply voltage in which a digital code of a voltage variation pattern that is a combination of a high-level and low-level  
15 voltages is incorporated so that said electronic device performs a specific control based on the digital code.

12. The control method of the electronic device for health index measurement according to claim 11, wherein said driving power supply has a function for selectively incorporating any one of plural digital codes in the  
20 power supply voltage, and said electronic device performs a control corresponding to the incorporated digital code.

13. The control method of the electronic device for health index measurement according to claim 11, wherein said driving power supply has a function for incorporating an inputted optional digital code to the power  
25 supply voltage, and said electronic device performs a control corresponding to the incorporated digital code.

14. The control method of the electronic device for health index measurement according to any one of claims 11 to 13, wherein said driving power supply sets a low level voltage period with a predetermined length  
30 before an incorporating period of the digital code, the low level voltage being higher than the minimum operating voltage of said electronic device, and after the low level voltage period, the digital code that begins with a high

level voltage is incorporated.